

**CONTRACT REQUESTS FORM (CRF)**

CEC-94 (07/10)

CALIFORNIA ENERGY COMMISSION



☒ New Contract      ☐ Amendment to Existing Contract: \_\_\_\_\_ Amendment Number: \_\_\_\_\_

Division	Contract Manager:	MS-	Phone	CM Training Date
Energy Research and Development	Guido Franco	47	327-2392	12/3/1997

Contractor's Legal Name	Federal ID Number
The Regents of the University of California, Berkeley	94-6002123

Title of Project
Potential Energy Scenarios for California and Their Environmental Consequences: Phase Ia

Term	Start Date	End Date	Amount
New/Original Contract	6/30/2011	9/15/2013	\$ 900,000

Line up the Amendment information as best as possible within the following table.

Amendment #	End Date (mm/dd/yy)	Amount

### Business Meeting Information

Proposed Business Meeting Date	5/18/2011	<input type="checkbox"/> Consent	<input checked="" type="checkbox"/> Discussion
Business Meeting Presenter	Guido Franco	Time Needed:	5 minutes

### Agenda Item Subject and Description

Possible approval of Contract 500-10-047 for \$900,000 with The Regents of the University of California, Berkeley to develop long-term energy scenarios for California using a geographical information system framework and high temporal resolution to properly model intermittent sources of electricity. The scenarios will provide information on the potential strategies that could be used to achieve the 2050 greenhouse gas emissions reduction goals. (PIER Electricity funding). Contact: Guido Franco (5 minutes).

**Business Meeting approval is not required for the following types of contracts:** *Executive Director's signature is required in all cases.*

- ☐ Contracts less than \$10k (*Policy Committee's signature is also required*)
- ☐ Amendment for a no-cost time extension. Must be first extension, less than one year and original contract less than \$100k.
- ☐ Contracts less than \$25k for Expert Witness in Energy Facility licensing cases and amendments.

### Purpose of Contract or Purpose of Amendment, if applicable

The purpose of this contract is to develop several potential energy scenarios and simulate renewable energy resource demands with high temporal and spatial resolution with the goal of minimizing the cost of meeting projected electricity demand with generation, storage, and transmission from present day until 2050. This is a first phase of a two-phased exploratory study investigating potential future energy trajectories in California and their environmental consequences. This first phase will develop energy scenarios that include renewable energy sources and plot them on maps.

### California Environmental Quality Act (CEQA) Compliance

- Is Contract considered a "Project" under CEQA?
  - ☐ Yes: skip to question 2
  - ☒ No: complete the following (PRC 21065 and 14 CCR 15378):  
 Explain why contract is not considered a "Project":  
 Contract will not cause direct physical change in the environment or a reasonably foreseeable indirect physical change in the environment because involves data-intensive energy modeling based on policy-driven scenarios and map-plotting..
- If contract is considered a "Project" under CEQA:
  - ☐ a) Contract **IS** exempt. (Draft NOE required)
    - ☐ Statutory Exemption. List PRC and/or CCR section number: \_\_\_\_\_
    - ☐ Categorical Exemption. List CCR section number: \_\_\_\_\_
    - ☐ Common Sense Exemption. 14 CCR 15061 (b) (3)  
 Explain reason why contract is exempt under the above section: \_\_\_\_\_
  - ☐ b) Contract **IS NOT** exempt. The Contract Manager needs to consult with the Energy Commission attorney assigned to their division and the Siting Office regarding a possible Initial Study.

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Budgets Information								
Contract Amount Funded		Breakdown by FY			Funding Sources			
Funding Source	Amount	FY	Amount	Approved?	Funding Source	FY	Budget List No.	Amount
ARFVTF	\$	10-11	\$900,000	Yes	PIER-E	09-10	501.027	\$900,000
ECAA	\$		\$					\$
State- ERPA	\$		\$					\$
Federal	\$		\$					\$
PIER - E	\$900,000		\$					\$
PIER - NG	\$		\$					\$
Reimbursement	\$		\$					\$
Other	\$		\$					\$
<b>TOTAL:</b>	<b>\$900,000</b>	<b>TOTAL:</b>	<b>\$900,000</b>		<b>TOTAL:</b>			<b>\$900,000</b>
Reimbursement Contract #:					Federal Agreement			

Contractor's Administrator/ Officer		Contractor's Project Manager	
Name:	Viviane Her	Name:	Daniel Kammen
Address:	2150 Shattuck Ave Ste 300	Address:	130 Mulford Hall # 3114
City, State, Zip:	Berkeley, CA 94704-5940	City, State, Zip:	Berkeley, CA 94720-3114
Phone/ Fax:	510-642-8120 / 510-642-8236	Phone/ Fax:	510-642-1139 / 510-642-1085
E-Mail:	vher@berkeley.edu	E-Mail:	Kammen@socrates.berkeley.edu

Contractor Is
<input type="checkbox"/> Private Company (including non-profits)
<input checked="" type="checkbox"/> CA State Agency (including UC and CSU)
<input type="checkbox"/> Government Entity (i.e. city, county, federal government, air/water/school district, joint power authorities, university from another state)

Selection Process Used		
<input type="checkbox"/> Solicitation	Select Solicitation Type	Solicitation #:
<input type="checkbox"/> Non Competitive Bid (Attach CEC 96)		
<input checked="" type="checkbox"/> Exempt	Interagency	

Civil Service Considerations
<input checked="" type="checkbox"/> Not Applicable (Contract is with a CA State Entity or a membership/co-sponsorship)
<input type="checkbox"/> Public Resources Code 25620, et seq., authorizes the Commission to contract for the subject work. (PIER)
<input type="checkbox"/> The Services Contracted:
<input type="checkbox"/> are not available within civil service
<input type="checkbox"/> cannot be performed satisfactorily by civil service employees
<input type="checkbox"/> are of such a highly specialized or technical nature that the expert knowledge, expertise, and ability are not available through the civil service system
<input type="checkbox"/> The Services are of such an:
<input type="checkbox"/> urgent
<input type="checkbox"/> temporary, or
<input type="checkbox"/> occasional nature
that the delay to implement under civil service would frustrate their very purpose.
<b>Justification:</b>
This contract is with a CA State Entity, the University of California, Berkeley, thus civil service considerations are not applicable.

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**Payment Method**

- ☒ A. Reimbursement in arrears based on:
- ☐ Itemized Monthly      ☒ Itemized Quarterly      ☐ Flat Rate      ☐ One-time
- ☐ B. Advanced Payment
- ☐ C. Other, explain: \_\_\_\_\_

**Retention**

1. Is contract subject to retention? ☒ No ☐ Yes
- If Yes, Do you plan to release retention prior to contract termination? ☐ No ☐ Yes

**Justification of Rates**

The overhead rates charged in this contract are the standard negotiated rates between the Energy Commission and the University of California. All other rates are standard published rates for the UC. The rates charged by LBNL are rates authorized by the US Department of Energy.

**Disabled Veteran Business Enterprise Program (DVBE)**

1. ☒ Not Applicable
2. ☐ Meets DVBE Requirements      DVBE Amount:\$ \_\_\_\_\_ DVBE %: \_\_\_\_\_
- ☐ Contractor is Certified DVBE
- ☐ Contractor is Subcontracting with a DVBE: \_\_\_\_\_
3. ☐ Requesting DVBE Exemption (attach CEC 95)

**Is Contractor a certified Small Business (SB), Micro Business (MB) or DVBE?**

- ☒ No ☐ Yes
- If yes, check appropriate box: ☐ SB ☐ MB ☐ DVBE

**Is Contractor subcontracting any services?**

- ☐ No ☒ Yes
- If yes, give company name and identify if they are a Small Business (SB), Micro Business (MB) and/or DVBE:

Lawrence Berkeley National Laboratory	<input checked="" type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE
	<input type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE
	<input type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE
	<input type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE
	<input type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE
	<input type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE
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	<input type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE
	<input type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE
	<input type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE
	<input type="checkbox"/> No	<input type="checkbox"/> SB	<input type="checkbox"/> MB	<input type="checkbox"/> DVBE

**Miscellaneous Contract Information**

1. Will there be Work Authorizations? ☒ No ☐ Yes
2. Will there be IT expenditures? ☒ No ☐ Yes
3. Is the Contractor providing confidential information? ☒ No ☐ Yes
4. Is the contractor going to purchase equipment? ☐ No ☒ Yes
5. Check frequency of progress reports
- ☐ Monthly ☒ Quarterly ☐ \_\_\_\_\_
6. Will a final report be required? ☐ No ☒ Yes
7. Is the contract, with amendments, longer than a year? If yes, why? ☐ No ☒ Yes

The Department of General Services has agreed to give the Commission blanket authority to execute multi-year contracts to support the Commission's RD&D Programs.

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**The following items should be attached to this CRF**

1. Scope of Work, Attach as Exhibit A.	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Attached
2. Budget Detail, Attach as Exhibit B.	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Attached
3. CEC 96, NCB Request	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Attached
4. CEC 30, Survey of Prior Work	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Attached
5. CEC 95, DVBE Exemption Request	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Attached
6. Draft CEQA Notice of Exemption (NOE)	<input type="checkbox"/> N/A	<input type="checkbox"/> Attached
7. Resumes	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Attached

\_\_\_\_\_  
Contract Manager\_\_\_\_\_  
Date\_\_\_\_\_  
Office Manager\_\_\_\_\_  
Date\_\_\_\_\_  
Deputy Director\_\_\_\_\_  
Date

The following signatures are only required when contract approval is delegated to the Executive Office and not approved at a Business Meeting.  
See Business Meeting Information Section.

\_\_\_\_\_  
Presiding Policy Committee\_\_\_\_\_  
Date\_\_\_\_\_  
Associate Policy Committee\_\_\_\_\_  
Date\_\_\_\_\_  
Executive Director\_\_\_\_\_  
Date